

Overview

Mr. Landeweer currently serves as Senior Project Manager in the Chicago office of URS. He is responsible for the preparation of engineering plans and specifications, project reports and other work related to transportation design and site development work.

His experience includes all phases of transportation and site engineering, including preliminary and conceptual engineering and phase II plan preparation. His transportation experience includes engineering design for local roads and streets, arterial roadways, and expressways. He also has extensive experience in bicycle path design.

Mr. Landeweer's experience also includes all aspects of civil engineering such as horizontal and vertical geometry, pavement geometrics, maintenance of traffic, drainage (including detention), pavement design, traffic signal/interconnect design, street lighting design, and landscaping. Along with project report and plan preparation, he has also prepared project special provisions and cost estimates for numerous projects.

He has an extensive knowledge of the AASHTO Policy on Geometric Design, the AASHTO Guide for the Development of Bicycle Facilities, and the Manual on Uniform Traffic Control Devices as well as other state and local design manuals.

Project Experience

Roadway Design Experience

US 45 (LaGrange Road) Project, Orland Park, IL – Illinois Department of Transportation (IDOT) – Project Manager. Project Manager for the preparation of Phase II contract plans and specifications for the reconstruction and the inclusion of additional lanes to almost 6 miles of US 45 (LaGrange Road) for the Illinois Department of Transportation. The proposed US 45 roadway cross section consists of three through lanes in each direction with a continuous landscaped barrier median. The work included updating and finalizing contract plans for the project which was split into three separate construction contracts. The work included new drainage design, lighting design and photometric calculations, traffic signal design, traffic staging, permitting, quantity calculations and additional Phase 1 work such as a new Intersection Design Study with accompanying plan changes. Due to the extremely aggressive schedule and the delay in acquiring some of the land parcels, two separate advance contracts were also prepared in an extremely short time period. The work also included extensive coordination with the Village of Orland Park which was preparing landscaping and site amenity plans for the corridor. From Notice to Proceed to submittal of the final plans, contract plans were completed for the five separate construction contracts in less than seven months.

Elgin Special Assessment Project, Elgin, IL – City of Elgin – 2006-2012 – Project Manager. Project Manager for the preparation of Phase II contract plans, specifications and estimates for the complete reconstruction of four streets in three separate locations for the City of Elgin. Services included topographic surveys of the streets, land acquisition, design of new storm sewer systems, lighting design on Willard Avenue, and permitting with the Army Corps and North Cook Soil and Water Conservation District. For all streets included in the project, the horizontal and vertical alignments were established to minimize impact to the adjacent properties and parkway trees while maintaining drainage over the curb wherever possible. The work also included preparing signal plans for the intersection of Willard Avenue and Villa Street. As part of the special assessment process, duties included preparing for and attending public hearings, Court hearings and assisting the City appointed Commissioner in spreading the roll.

95th Street/Museum Drive Improvement, Oak Lawn, IL – Village of Oak Lawn – Project Manager. Project Manager for the preparation of a Traffic Study to determine traffic signal warrants for a new extension of Museum Drive at 95th Street for the Village of Oak Lawn. The extension of Museum Drive is planned to alleviate congestion currently occurring from the existing parking garage that serves commercial businesses and Metra commuter parking. The current exit onto 95th Street is immediately adjacent to the severely skewed at-grade crossing of 95th Street and the Metra Southwest Service line. The proposed extension would intersect 95th Street at a safe distance from the rail crossing. The study utilized existing traffic counts, projected traffic from future development and a redistribution of current traffic patterns as part of the Signal Warrant Analysis.

Professional Registrations

PE/IL/062-042363/1985

Areas of Expertise

Civil Engineering
Roadway Design
Bicycle Path Design
Site Development

Education

BS/Civil Engineering/1980/
Valparaiso University

Washington Street/Diehl Road/Book Road LAPP Projects, Naperville, IL. Project Manager for the preparation of Phase I LAPP documents and Phase II contract plans, specifications and estimates for the resurfacing of Washington Street, Diehl Road and Book Road for the City of Naperville. Services included preparing base plans from GIS information and existing plans of the streets, performing a field review to verify quantities, and coordination with IDOT.

Illinois Route 22 Widening and Reconstruction, Lake Zurich, IL – Illinois Department of Transportation – 2001-2005 – Project Manager. Project Manager for the preparation of Phase II contract plans and specifications for the reconstruction, widening and realignment of 3.1 miles of Illinois Route 22 along with a number of cross streets for the Illinois Department of Transportation. The work included establishing horizontal and vertical alignments, geometrics, drainage design including detention, numerous stages of traffic control during construction, traffic signal design, and erosion control.

Clark Street/Roosevelt Road Intersection Improvement, Chicago, IL – Chicago Department of Transportation (CDOT) – 2003-2004 – Project Manager. Project Manager for the preparation of a Phase I Project Development Report and the preparation of Phase II Contract Plans, Specifications, and Estimates for the reconstruction of the Clark Street approaches to Roosevelt Road for the Chicago Department of Transportation. The project consists of the construction of lower level through lanes under the elevated Roosevelt Road viaduct with the addition of approach ramps on structures for local traffic within a very narrow right-of-way. The work included establishing horizontal and vertical alignments, geometrics, drainage design, establishing a temporary detour route for Clark Street, traffic signal design, and lighting.

Congress Parkway Improvement and Streetscape Project, Chicago, IL – Chicago Department of Transportation (CDOT) – 2004-2012 – Project Manager. Project Manager for the preparation of a Traffic Study Report, Phase I Project Development Report and the preparation of Phase II Contract Plans, Specifications, and Estimates for the rehabilitation of Congress Parkway in downtown Chicago for the Chicago Department of Transportation. The project consists of the improvement of Congress Parkway between Wells Street, the eastern terminus of the Eisenhower Expressway, and Michigan Avenue. The goal of the project is to improve the vehicular traffic capacity of the roadway while providing for streetscape amenities along the roadway to provide for a friendlier pedestrian environment. The corridor consists of eight signalized intersections some of which are less than 200 feet apart. An intersection analysis was performed for the Congress/Plymouth Court intersection that documented the need to partially restrict access through the intersection based on accident statistics and traffic progression along the roadway. Various other traffic studies were also performed that quantified proposed trip generation from nearby proposed developments. Modeling was performed utilizing both HCS and SYNCHRO software that provided information to document the need for auxiliary lanes at various intersections as well as to show certain locations where the roadway could be narrowed to provide for more streetscape amenities while still maintaining an acceptable level of service. The work also includes establishing horizontal and vertical alignments, geometrics, drainage design, traffic signal design, and lighting.

Orchard Road Reconstruction and Widening, Aurora, IL – Kane County Department of Transportation – 1999-2000 – Project Manager. Project Manager for the performing of preliminary design studies and Phase II contract plans and specifications for the widening and reconstruction of one mile of Orchard Road in Aurora, Illinois for the Kane County Division of Transportation. The preliminary design work including an alignment study to determine the proposed horizontal alignment within the existing right-of-way, preparation of two Intersection Design Studies, and the preparation of a Drainage Report. The Drainage Report included the determination of the location and amount of stormwater detention, outfall location, and a preliminary storm sewer design. Phase II work involved the preparation of contract plans which included roadway plan-profile, drainage plan-profile, maintenance of traffic drawings, temporary and permanent traffic signal plans, lighting plans, signing and striping plans, cross sections, and other detail sheets. The Phase II work also included the preparation of special provisions, construction time estimate, cost estimate, and the bid package preparation.

Illinois Route 113, Kankakee, IL – Illinois Department of Transportation – 1995-2003 – Project Manager. Project Manager for the preparation of a Phase I Project Report and Environmental Class of Action Determination for Illinois Route 113 in Kankakee, Illinois for the Illinois Department of Transportation. The project includes an alternate alignment analysis, preparation of Intersection Design Studies, report preparation, a public hearing presentation, coordination with Conrail and Norfolk Southern railroads, hydraulic studies and environmental coordination.

Interstate 55/74, McLean County, IL – Illinois Department of Transportation – QA/QC. Responsible for Quality Assurance/Quality Control Management for the preparation of Phase II plans, specifications and estimates for the reconstruction and widening of Interstate 55/74 and reconfiguration of a major interchange in McLean County, Illinois for the Illinois Department of Transportation, District 3. The work included review of horizontal and vertical geometry, drainage, maintenance of traffic staging, striping, quantities and other aspects related to the preparation of Phase II plans.

Algonquin Road and Weber Street, Rolling Meadows, IL – City of Rolling Meadows – Project Manager. Acted as the Project Manager for a Phase I study for the signalization of Algonquin Road and Weber Street for the City of Rolling Meadows, Illinois. The work involved obtaining peak hour traffic counts and performing a signal warrant analysis at the intersection. Phase II involved the preparation of contract plans, specifications and estimates for the installation of the signal at the intersection along with the necessary modification of the existing signal interconnect system along Algonquin Road.

Kensington Road, Arlington Heights, IL – Village of Arlington Heights – 1994-2000 – Project Manager. Project Manager for the preparation of Phase II contract plans and specifications for the improvement of 1.5 miles of Kensington Road for the Village of Arlington Heights, Illinois. The project included the design of the horizontal and vertical alignment, pavement design, drainage studies, including watershed analysis, detention calculations, inlet spacing, and storm sewer sizing, installation of four traffic signals and traffic signal interconnect, street lighting and landscaping.

Belmont Road Grade Separation Project , Downers Grove, IL – Metra – 2000-2008 – Project Civil Engineer. Project Civil Engineer for final design of a new four lane roadway underpass of the three track mainline of the BNSF and Metra.

Atkinson Road with Illinois Route 120, Grayslake, IL – Project Manager: Project Manager for the preparation of an Intersection Design Study and Phase II plans, specifications and estimates for the improvement of the intersections of Atkinson Road with Illinois Route 120 and with Center Street in the Village of Grayslake, Illinois. The project included obtaining traffic counts, performing traffic analyses and the preparation of the IDS's for the Phase I portion of the work. The Phase II work involved the preparation of the roadway and drainage plan-profile sheets, traffic signal plans, cable plans, signing and striping plans and other plans associated with the improvement.

Kirchoff Road, Rolling Meadows, IL – City of Rolling Meadows – 1993-1997 – Project Manager. Responsible for the preparation of a Phase I Project Report and Phase II contract plans and specifications for the improvement of Kirchoff Road in Rolling Meadows, Illinois. The project consisted of a widening and resurfacing improvement, along with the reconstruction of the structure over Salt Creek. The project involved the preparation of signal warrant analyses, intersection design studies, accident analyses, drainage studies and other items necessary to prepare a project report and contract plans.

US 14/Baldwin Road Intersection Improvements – Village of Inverness – 1992-2000 – Project Manager. Responsible for the preparation of a Phase I Project Report for the reconstruction and reconfiguring of the intersections of Baldwin Road and Colfax Street with U.S. Route 14. The staged improvement ultimately will realign Baldwin Road to form a 90 degree four legged intersection at the existing U.S. Route 14/Countryside Drive intersection, northwest of the existing Baldwin/Colfax/U.S. 14 intersection. Roselle Road south of Baldwin Road (Roselle currently terminates in a "T" here) would also be realigned to curve into Baldwin Road south of U.S. Route 14; thereby, creating one continuous route.

The interim improvement consisted of a widening and reconstruction of the various streets within the project limits, including US 14 and Baldwin Road. The project involved the preparation of signal warrant analyses, intersection design studies, accident analyses, drainage studies and other items necessary to prepare a project report and contract plans. Coordination was also necessary with the Union Pacific Railroad.

111th Street, Oak Lawn, IL – Village of Oak Lawn – Project Manager. Project Manager for the preparation of Phase II contract plans, specifications and estimates for the installation of a 1.0-mile long street lighting system along 111th Street in Oak Lawn, Illinois. The project included coordination with existing utilities, spacing analysis, photometric calculations and preparation of details necessary for the project.

Bridge Replacement and Roadway Improvements, Monee, IL – Village of Monee – Project Engineer: Project Engineer for the preparation of Phase II contract plans, specifications and estimates for a bridge replacement and associated roadway improvements in Monee, Illinois. The project included reconstruction of the bridge approaches, drainage improvements, vertical and horizontal alignments, retaining walls, landscaping improvements and relocation of an existing water main.

Illinois Route 59, DuPage County, IL – Illinois Department of Transportation (IDOT) – Project Engineer. Project Engineer for the design of plans for widening and reconstruction of 3 miles of Illinois Route 59 in DuPage County for the Illinois Department of Transportation. Work included design of drainage systems, alignment, geometrics, traffic signal and maintenance of traffic.

Illinois Department of Transportation – Project Engineer. Project Engineer for the preparation of four Project Reports for bridge replacements for the Illinois Department of Transportation in District 2. Work included the